

**S1 Table. Primers used in this study**

Viruses	Primers (5' to 3')	Target	Reference
PCLV	L segment-F: AGACAGCACAAGCAAATAAAGCAAG L segment-R: AAACATGCATTGTAAGGTTTGTGCG M segment-F: AAAAGTAGGAATTGATGCTGTTGC M segment-R: CTTGAGCACTTTGTCTAATGGC	M and L segments	[51]
	PCLV-N-F: CAGTTAAAGCATTAAATCGTATGATAA S segment-R: TGGAAAATAAAAACAATAAAGCAATAC	S segment	[52] forward primer [51] reverse primer
Pan- Flavivirus	First PCR: MAMD - AACATGATGGGRAARAGRARA cFD2 - GTGTCCCAGCCGGCGGTGTCATCAGC Second PCR: FS 778 - AARGGHAGYMCMDGCHATHTGGT cFD2 - GTGTCCCAGCCGGCGGTGTCATCAGC	NS5	[53]
Pan- Alphavirus	First PCR: TTTAAGTTGGTGCATGATGAAGTC-F GCATCTATGATATTGACTTCATGTT-R Second PCR: GGTGCGATGATGAAGTCTGGGATGT-F CTATGATATTGACTTCATGTTCATCCA-R1 CTATGATATTGACTTCATGTTCAGCCA-R2	nsP4 coding region	[54]
Endogenous mosquito gene	ACAACCAGTGGAATCCTTCG-F GTTCTCATTGCGACCCAAT-R	AAEL004181	[55]